

LISTING OF CLAIMS:

1. (Currently Amended) A method of managing power in a storage controller, device, comprising:
measuring a temperature in a storage controller; device;
comparing the temperature to a first threshold; and
decreasing the throughput of the storage controller device by setting a limit to a number of input/output requests to be processed in a given time period if the temperature exceeds the first threshold.
2. (Cancelled)
3. (Cancelled)
4. (Currently Amended) A method of managing power in a storage controller, data transfer device, comprising:
in response to a predetermined event, measuring a temperature in a storage controller, data transfer device, comparing the temperature to at least a first temperature range, and setting an input/output request limit to a first predetermined value if the temperature is within the first temperature range;
in response to an input/output data transfer request, determining whether the input/output request limit has been reached, and processing the input/output data transfer request if the input/output request limit has not been reached.
5. (Original) The method of claim 4, wherein the first temperature range is below a first threshold and the first predetermined value is a predetermined maximum value.
6. (Original) The method of claim 4, wherein the first temperature range is between a first threshold and a second threshold.

7. (Currently Amended) The method of claim 6, further comprising:
in response to the predetermined event, comparing the temperature to a second temperature range if the temperature is not within the first temperature range, and setting the input/output request limit to a second predetermined value if the temperature is within the second temperature range.
8. (Original) The method of claim 7, wherein the second predetermined value is less than the first predetermined value.
9. (Original) The method of claim 8, wherein the second predetermined value is zero.
10. (Original) The method of claim 4, wherein the first predetermined value is zero.
11. (Currently Amended) The method of claim 4, further comprising:
in response to the input/output, ~~data transfer request~~, decrementing the input/output request limit if the input/output request limit has not been reached.
12. (Currently Amended) The method of claim 4, wherein the storage controller ~~data transfer device~~ is an embedded input/output controller.
13. (Original) The method of claim 12, wherein the method is performed by a control processor.
14. (Currently Amended) The method of claim 13, wherein the step of processing the input/output ~~data transfer request~~ comprises assigning the input/output ~~data transfer~~ request to a lower level processor.
15. (Original) The method of claim 4, wherein the predetermined event is a timer interrupt.

16. (Currently Amended) A storage controller, data transfer device, comprising:
a temperature sensor; and
a control processor, coupled to the temperature sensor,
wherein the control processor, in response to a predetermined event, measures a temperature using the temperature sensor, compares the temperature to at least a first temperature range, and sets an input/output request limit to a first predetermined value if the temperature is within the first temperature range; and
wher cin the control processor, in response to an input/output data transfer request, determines whether the input/output request limit has been reached, and processes the input/output data transfer request if the input/output request limit has not been reached.
17. (Currently Amended) The storage controller data transfer device of claim 16, wherein the first temperature range is below a first threshold and the first predetermined value is a predetermined maximum value.
18. (Currently Amended) The storage controller data transfer device of claim 16, wherein the first temperature range is between a first threshold and a second threshold.
19. (Currently Amended) The storage controller data transfer device of claim 18, wherein the control processor, in response to the predetermined event, compares the temperature to a second temperature range if the temperature is not within the first temperature range, and sets the input/output request limit to a second predetermined value if the temperature is within the second temperature range.
20. (Currently Amended) The storage controller data transfer device of claim 19, whcrein the second predetermined value is less than the first predetermined value.
21. (Currently Amended) The storage controller data transfer device of claim 20, whrcin the second predetermined value is zero.

22. (Currently Amended) The storage controller data transfer device of claim 16, wherein the first predetermined value is zero.

23. (Currently Amended) The storage controller data transfer device of claim 16, wherein the control processor, in response to the input/output data transfer request, decrements the input/output request limit if the input/output request limit has not been reached.

24. (Currently Amended) The storage controller data transfer device of claim 16, wherein the storage controller is an embedded input/output controller.

25. (Currently Amended) The storage controller data transfer device of claim 24, wherein the control processor assigns the input/output data transfer request to a lower level processor.

26. (Currently Amended) The storage controller data transfer device of claim 16, wherein the predetermined event is a timer interrupt.

27. (Currently Amended) A computer program product, in a computer readable medium, for managing power in a storage controller, data transfer device, comprising:
instructions, in response to a predetermined event, for measuring a temperature in a storage controller, data transfer device, comparing the temperature to at least a first temperature range, and setting an input/output request limit to a first predetermined value if the temperature is within the first temperature range;
instructions, in response to an input/output data transfer request, for determining whether the input/output request limit has been reached, and processing the input/output data transfer request if the input/output request limit has not been reached.

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